

CALIFORNIA DEPARTMENT OF CONSERVATION CALIFORNIA GEOLOGICAL SURVEY

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SPECIAL REPORT 199 RELEASE May 2012

Update of Mineral Land Classification for Portland Cement Concrete-Grade Aggregate in the Stockton-Lodi Production Consumption Region, San Joaquin and Stanislaus Counties, California

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BACKGROUND:

California's Surface Mining and Reclamation Act of 1975 (SMARA) requires the State Geologist to classify land into Mineral Resource Zones (MRZs), based on the known or inferred mineral resource potential of that land. The process is based solely on geology, without regard to existing land use or land ownership. The primary goal of mineral land classification is to help ensure that the mineral resource potential of lands is recognized and considered in the land-use planning process.

SUMMARY:

Special Report 199 updates Special Report 160 (SR 160) – *Mineral Land Classification of Portland Cement Concrete Aggregate in the Stockton-Lodi Production Consumption Region* – originally published in 1988. Sand and gravel deposits having material suitable for use as construction aggregate are classified in this update report. Emphasis was placed on deposits of portland cement concrete grade (PCC-grade) aggregate.

This report presents a reevaluation and update of portland cement concrete aggregate resources in the Stockton-Lodi Production-Consumption Region for the benefit of local lead agencies in the region. Deposits that meet the specifications for portland cement concrete aggregate are among the scarcest and most valuable construction aggregate resources. This report also provides an updated 50-year projection of construction aggregate needs for the Stockton-Lodi Production-Consumption Region through the year 2060.

In this update report, the following conclusions are made:

- Currently permitted PCC-grade aggregate reserves are projected to last through the year 2033, 23 years from the present (2011).
- The projected 50-year demand for construction aggregate in the Stockton-Lodi P-C Region is 687 million tons, of which 275 million tons must be PCC-grade. This is more than double the prior 50-year projection of 281 million tons (all grades) made in 1988 in Special Report 160.
- 2,081 acres containing 340 million tons of PCC-grade construction aggregate and 267 acres
 containing a proprietary amount of PCC-grade sand have been reclassified MRZ-1 due to depletion
 by mining or loss to incompatible land use since the completion of Special Report 160.
- 3,740 acres of land containing more than 600 million tons of PCC-grade construction aggregate resources and 289 acres containing a proprietary amount of PCC-grade sand resources have been reclassified MRZ-2 in the Stockton-Lodi P-C Region.
- An estimated 969 million tons of PCC-grade construction aggregate resources and 67 million tons of PCC-grade sand resources are identified in the Stockton-Lodi Production-Consumption Region.

AVAILABILITY:

Report 199 is available at the California Geological Survey offices in Sacramento, San Francisco and Los Angeles.

Price.....\$39.00 Shipping and handling.....\$8.00

(Check, money order or credit card number must be included with order)

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